Fight Those Weeds---Know the Enemy

is fought by everyone from cent. the proud lawn owner to the largest crop farmer. Almost when mechanical means of weeds are present.

To understand this battle come into the picture. waged against weeds, an un- "With herbicides, we are and accurately by saying a ft," Dr. Burnside explained.

competition prevents the de- required, he said. sired plant from approaching its potential in growth and production.

an important contribution to occupied by the crop plants. a lawn's appearance, it makes This way, the crop growth an even more important con- dominates weed growth earlitribution to the crop farmer er; thus, it is only necessary in the form of an increased to control weeds for two income

National Income

age national income to the rate of herbicide application. farmer from field crops is No cultivation and less her- broad-leaf plants. average for reduction of crop

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Tht battle of wee'l control cultivated, is 10 to 30 per-

wherever crops are grown, weed control are exercised. And this is where herbicides

derstanding should be had of not always able to eliminate what a weed is. Dr. Orvin C. the 10 to 30 percent reduction Burnside of the University of due to weeds, but we are Nebraska Agronomy Depart- able to approach this figure ment labeled a weed briefly and sometimes accomplish

weed is a "plant growing out The mechanical control of weeds by cultivation can be From this, it can be seen completely replaced by herbithat an orchid could be a cides in row-crops planted weed if it were growing where closely together, according to it is not desired. Plants grow- Dr. Burnside. Production cost ing out of place compete with are reduced because cultivathe desired plants for mois- tion is eliminated and only ture and plant nutrients. This one-half as much herbicide is

Narrow Rows

In narrow rows, he explained, there is less area for While weed control makes weeds to grow and more area months. Both, less weed area and less time required for Dr. Burnside said the aver- weed control, allow a reduced

> possible through the use of leaf plants. selective herbicides. A selective herbicide is lethal to one harm to grassy plants. And of 2-4-D on plants is not fully as a constituent of carbohy- herbicide residues remain in conversely, there are herbicides that will kill grassy plants and will not harm the

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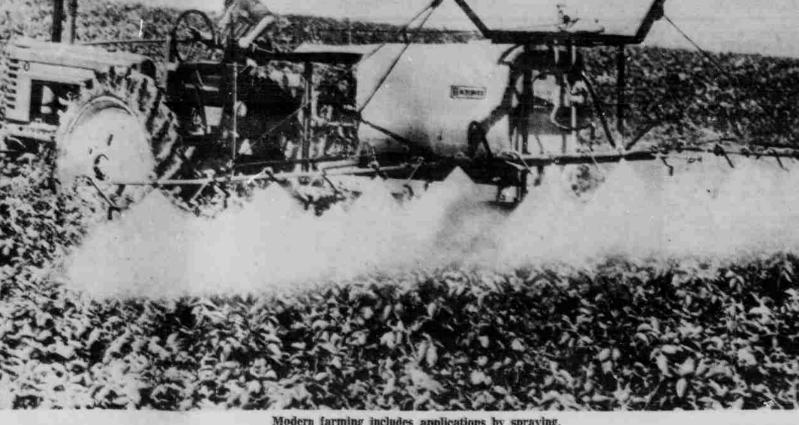
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be accompanied by the name of the person placing said ad and brought to room 206 Burnett.

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Modern farming includes applications by spraying.

they grow among desired there is 4-(2,4-DB), a herbi- a plant plants without any harm to cide that kills grassy plants He said it is known how not possess the enzyme system desired plants. This is growing among the broad-chemicals such as Atrazine, tem or are inefficient in con-

Characteristics

weeds. He said the national that reduce production costs. a herbicide that kills broad- D causes death to a plant, sion will die. Dr. Burnside dication of a broad-leaf plant, Undesired plants can be leaf plants growing a mong But nothing definite can be said. yields, even when crops are treated with herbicides while grasses. On the other hand, said about the way 2-4-D kills In the case of 4-(2-4-DB), used for growing a broad-

> Simazine, Diuron and Monu- verting the 4-(2-4-Db) into ron kill plants. He explained a lethal compound. Physiological characteristics that these chemicals inhibit Dr. Burnside said that the type of plant while it is non- vary among different kinds of the "Hill Reaction." The "Hill problem of dissipation of herlethal to another type. For plants and this phenomenon Reaction" is the breaking of bicides in the soil is an imexample, there are herbicides is what makes selective her- water (H20 into hydrogen portant one in which more that will kill broad-leaf bicides possible. Dr. Burn- atoms and oyxgen atoms. The work needs to be done. plants and do little or no side explained that the action hydrogen is used by the plant. He explained that so me

junderstood. He said there are drates. The plant without the the soil for as long as two reduced about 20 percent by bicide are two main factors Dr. Burnside said 2-4-D is many theories about how 2-4 ability to make this conver- years. Land treated for erra-

for example, could not be plants such as legumes do leaf plant the following year.

"Now, the only solution is to plant the same crop the following year or summer fallow," Dr. Burnside said. He said finding a chemical with a shorter residual effect would be the answer to this problem

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Dartmouth College will be on each of the 14 panels of the maximum." view in the Gallery of the Ne- murals are shown. braska Union from July 1 to The first half of the mural, 1883, Orozco grew up in Mex-July 29, as part of the Uni-called The Coming of Quet- ico where he often watched

makes contributions to edu- and

The drawings, in ink, pen-destroy corrupt civilization. cil, gouache and crayon, were selected from the collection Johnson, Assistant Curator of Museum of Modern Art.

mouth in 1932, the murals cover 3,000 square feet of wall space in the college library In two sections, one representhave molded American civil- violence or hatred ization. Although they Orozco was a leader in the

country. sketches to final working co, himself, once wrote: "My

Union Gallery To Exhibit Studies Fifty studies for Jose Cle-drawings actually traced on one theme is humanity. My mente Orozco's murals at the wall itself, studies for one tendency is emotion to a

versity's Summer Session zalcoati", depicts the migra- the popular printmaker, Posation of ancient tribes seeking da, at work Shown for the first time in a promised land; their bar- He began his advanced ed-November 1961 at the Muse-baric culture; the develop- ucation at the Agricultural um of Modern Art, New York, ment of militarism; the ar- School at San Jacinto. In 1908, the exhibition is being circu-lated by the Museum with the endary white messiah who San Carlos, where he spent aid of a grant from the CBS banished false gods and six years. Until his death in Foundation Inc., the organiza- aroused people from intel- 1949, he was exclusively a tion through which the Coi- lectual and spiritual torpor; painter and graphic artist. umbia Broadcasting System the golden age that followed; He made extensive visits cational and cultural institu- trayed god, who prophesied in addition to the Dartmouth

Protest

of the late artist's son, Clemente Orozco, by Elaine L. Return of Quetzalcoatl." re- in 1940, he painted six movements of the late artist's son, Clemente Orozco, by Elaine L. Return of Quetzalcoatl." re- in 1940, he painted six movements for cords the effect of the arrival able, exchangeable panels for Drawings and Prints at The of Cortez and his followers in The Museum of Modern Art. America. Remarkably, they

The final scene is a protest ing aboriginal culture, the against intellectual, political, other, the machine age, Oroz. and spiritual bondage, and the co interpreted the forces that prophecy of a future without

aroused controversy when renaissance of modern Mexicompleted in 1934, the fres- can painting and was active coes are considered one of in the revival of the ancient the most outstanding exam- art of fresco. He helped forge ples of mural art in this this native artistic heritage

into a vital humanistic idiom. Noted for the intense expres-Ranging from quick siveness of his painting, Oroz-

the departure of the be- to the United States where, his return 500 years later 10 Frescoes, he executed murals for Pomona College in Claremont, California (1930), and The second half of the the New School for Social Re-

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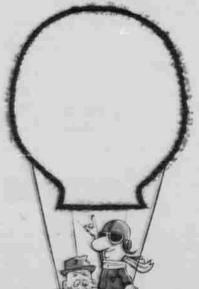
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